# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

***Name of the work:*** **Estimate for Improvements to Roads and Drains and Construction of Culverts at Bharatnagar, Marutinagar surrounding area in Ward No 11( Kuvempunagara) in Vidyaranyapura Sub Division.**

| | | | | | | | | Estimate Cost: | 2000000.00 |
|---|---|---|---|---|---|---|---|---|---|
| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
| 1 | KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17** | Cum | | | | | | | |
| | 2nd cross bharatnagar | | 2 | 140.00 | 1.00 | 1.00 | 280.00 | | |
| | Culvert | | 2 | 4.20 | 1.35 | 1.20 | 13.61 | | |
| | Basic Rate | 82.00 | | | | | **293.61** | 199.36 | **58535.00** |
| | Add loading and unloading Charges **It No 17.1 KSRRB M 100-1** | 68.00 | | | | | | | |
| | Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08 | 38.08 | | | | | | | |
| | | **188.08** | | | | | | | |
| | Area Weightage @ 6% | 11.28 | | | | | | | |
| | **Total** | **199.36** | | | | | | | |
| 2 | KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17** | Cum | | | | | | | |
| | for drain 2nd cross bharatnagar | | 2 | 140.00 | 1.00 | 0.15 | 42.00 | | |
| | Culvert | | 2 | 4.20 | 1.35 | 0.15 | 1.70 | | |
| | Basic Rate | 4867.00 | | | | | **43.70** | 5159.02 | **225454.00** |
| | Area Weightage @ 6% | 292.02 | | | | | | | |
| | Total | **5159.02** | | | | | | | |
| 3 | Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2016-17** | Cum | | | | | | | |
| a | Drain Bottom Concrete | | 2 | 140.00 | 0.90 | 0.15 | 37.80 | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2 | 4.20 | 1.20 | 0.15 | 1.51 | | |
| | Side Wall | | 4 | 140.00 | 0.15 | 0.60 | 50.40 | | |
| | | | 4 | 4.20 | 0.25 | 0.60 | 2.52 | | |
| | Basic Rate | 5879.00 | | | | | **92.23** | 6231.74 | **574766.00** |
| | Area Weightage @ 6% | 352.74 | | | | | | | |
| | Total | **6231.74** | | | | | | | |
| 4 | KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2016-17** | Tonne | | | | | | | |
| | For Roof, Columns @ 60 Kg / Cum | | 0.07 | 92.23 | | | **6.46** | 59413.00 | **383585.00** |
| | Basic Rate | 56050.00 | | | | | | | |
| | Area Weightage @ 6% | 3363.00 | | | | | | | |
| | Total | **59413.00** | | | | | | | |
| 5 | KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2016-17** | Sqm | | | | | | | |
| | Side Wall | | 3x2 | 140.00 | | 0.60 | 504.00 | | |
| | | | 4x2 | 4.20 | | 0.75 | 25.20 | | |
| | Basic Rate | 293.00 | | | | | **529.20** | 310.58 | **164359.00** |
| | Area Weightage @ 6% | 17.58 | | | | | | | |
| | **Total** | **310.58** | | | | | | | |
| 6 | Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate | Sqm | | | | | | | |
| | For Covering Slab | | 2 | 140.00 | | 0.90 | 252.00 | | |
| | | | | | | | **252.00** | 1760.00 | **443520.00** |
| 7 | Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate | Sqm | | | | | | | |
| | | | 2 | 4.20 | | 1.20 | 10.08 | | |
| | | | | | | | **10.08** | 5125.00 | **51660.00** |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 8 | KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2016-17** | Cum | | | | | | | |
| | Ramp | | 2 | 140.00 | 0.40 | 0.12 | 13.44 | | |
| | Basic Rate | 5441.00 | | | | | **13.44** | 5767.46 | **77515.00** |
| | Area Weightage @ 6% | 326.46 | | | | | | | |
| | Total | **5767.46** | | | | | | | |
| | Sub Total | | | | | | | | **1979394.00** |
| | For Third Part QC inspection Charges @ 1% | | | | | | | | **19794.00** |
| | Miscellaneous and other Charges | L/S | | | | | | | **812.00** |
| | | | | | | | | **Total** | **2000000.00** |
| | **Rupees Twenty Lakh(s) Only** | | | | | | | | |

**CERTIFICATE:**

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2015-16 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

05/01
Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

12/01
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval 12/01
Accorded For 20.00
Head of A/C P1771
CER NO 117 Dt. 12/01/17
TA
CE (YNK)

TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/c P-1771
Div. Ref. No. 143/16-17 Dt. 12/01/17
AE
EE(BTP) 12/01

Name of work : Improvements to Roads and Drains and Construction of Culverts at Bharatnagar, Marutinagar surrounding area in ward No 11 (Kuvempunagar) in Vidyaranyapura Sub Division

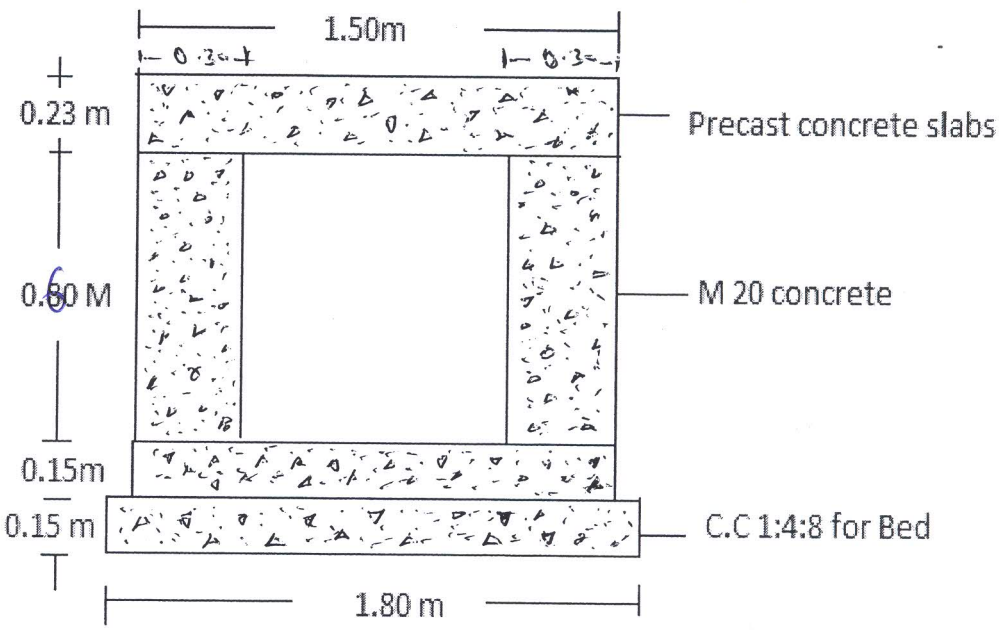
Assistant Engineer
Ward No 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

**Name of work :** .....

.....in Ward No 11 Kuvempunagara,

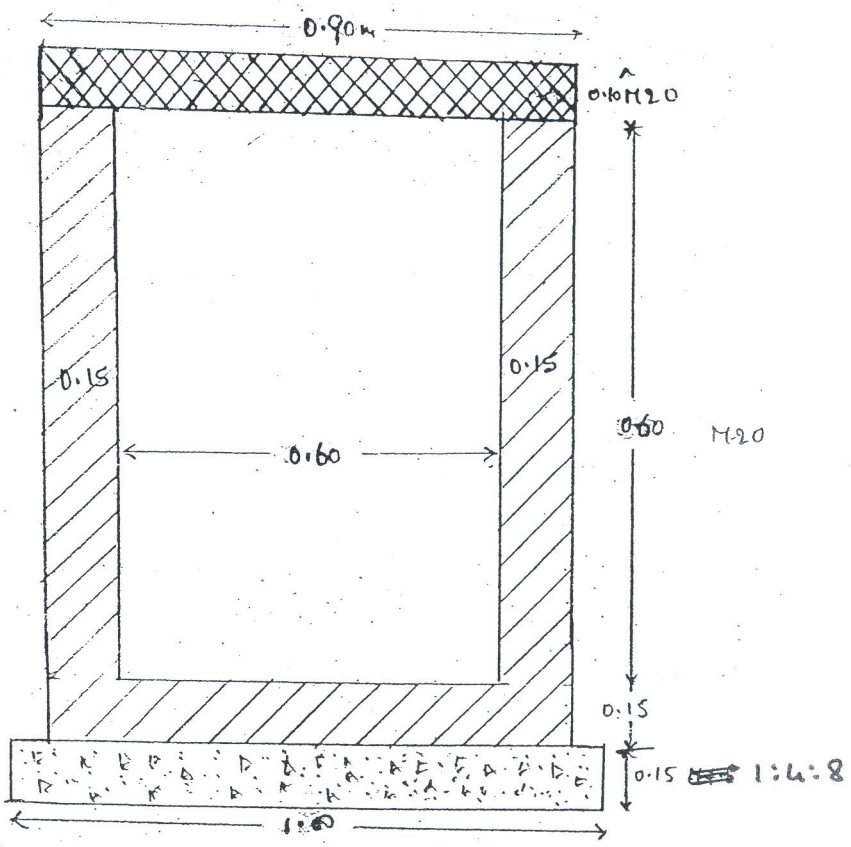
Vidyaranyapura sub Division




Cross section of Culvert

Assistant Engineer
Ward No 11

Assistant Executive Engineer
Vidyaranyapura Sub Division




# CROSS SECTION OF CC DRAIN

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ,
ಬಿ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97